

CHERNOV, P.

Experiments in disinfecting flour mills by methyl bromide
in Tula Province. Muk.-elev. prom. 29 no.7:13 J1 '63.
(MIRA 17:1)

1. Starshiy ekonomist Tul'skogo oblastnogo upravleniya
khleboproduktov.

~~CHERNOV~~, P., uchenyy sekretar'.

The technical and economic council of a regional economic council
and labor productivity. Sots. trud no.5:107-109 My '58.

(MIRA 11:6)

1. Tekhniko-ekonomicheskii soviet Stalinskogo sovnarkhoza (Donbass).
(Stalino Province—Coal mines and mining)

TIMOFEEV, M.K.; CHERNOV, P.A.

Some practical problems of the epidemiology of abdominal typhys.
Sov. zdrav. Kir. no.4/5:108-113 J1-0'63 (MIRA 17:1)

1. Ministerstvo zdavookhraneniya Kirgizskoy SSR i Talasskaya
rayonnaya bol'nitsa.

L 05011-67 EWT(m)/SWP(y)/SWP(j) IJP(c) WW/DJ/RM

ACC NR AR6031254 (A) SOURCE CODE: UR/0081/66/000/011/S101/S102

AUTHOR: Aleksandrov, A. P.; Chernov, P. B.; Zubkova, Yu. D. 27
8

TITLE: Vulcanization of U-30 m and UT-32 sealing compounds with a base of Thiokol "T" in a high-frequency electrical field. Part II

SOURCE: Ref. zh. Khimiya, Part II, Abs. 11S699

REF SOURCE: Tr. Kazansk. khim. -tekhnol. in-ta, vyp. 33, 1964, 274-279

TOPIC TAGS: vulcanization, Thiokol, sealing compound, rubber/U-30 sealing compound, UT-32 sealing compound

ABSTRACT: Vulcanization of U-30 and UT-32 sealing compounds with a base of Thiokol in a high-frequency electrical field (9.5 Mc) has been investigated. Samples were placed into a special mold between the capacitor plates of a tube generator. The process of vulcanization in a high-frequency field is 80—100 times faster than vulcanization in a thermostat at 70C. The increase of temperature > 80C in high-frequency vulcanization does not noticeably affect the properties of the vulcanized rubber, which in some cases, appeared to be better

Cord 1/2

L 05011-67

ACC NR: AR6031254

than those after vulcanization in a thermostat. For Part I, see RZhKhim, 1961, 18P244. B. Anfimov. [Translation of abstract]

SUB CODE: 13/

Card 2/2 *LC.*

KASPIN, B.A.; KIPPER, Z.M.; MIKHALCHENKOV, G.N.; MOREV, A.N.;
CHERNOV, P.G.; SHORKOV, V.P.; VELICHKO, Ye.M., red.

[Designing and building fish farms and fish hatcheries]
Proektirovanie i stroitel'stvo rybovodnykh khoziaistv i
zavodov. [By] B.A. Kaspin i dr. Moskva, Izd-vo "Pishche-
vaia promyshlennost'," 1964. 365 p. (MIRA 17:5)

ISAYEV, Aleksandr Ivanovich; SUKHOVERKHOV, Filipp Mikhaylovich; CHERNOV,
Petr Georgiyevich; MATTISEN, A.E., retsenzent; TSIUNCHIK, P.I.,
retsenzent; IL'INA, V.V., redaktor; CHEBYsheva, Ye.A., tekhnicheskiy
redaktor.

[Designing and operating hydraulic installations in waters used
for fishing] Proektirovanie i ekspluatatsiya gidrosooruzhenii
rybovodnykh khoziaistv. Moskva, Fishchepromizdat, 1956. 270 p.
(Hydraulic engineering) (MLRA 9:8)
(Fishways)
(Fish culture)

CHERNOV, P. I.

Seeds

New data on the period of dormancy of seeds in connection with heat treatment.

Agrobiologiya no. 6, 1951.

Sibirskiy Nauchno-issledovatel'skiy institut zernovogo khozyaystva, G. Omsk

Monthly List of Russian Accessions, Library of Congress, May 1952, UNCLASSIFIED.

KOVALEVSKIY, F.Ya., polkovnik; CHERNOV, P.I., podpolkovnik

This practice is beneficial. Vest. protivovozd. obor. no.11:
72-73 N '61. (MIRA 16:10)

(Russia—Army—Education, Nonmilitary)

CHERNOV, P.N.

Instrument for analysing the spectra of mechanical vibrations.
Priborostroenie no.10:28 0 '56. (MLBA 9:12)
(Cathode ray oscillograph)

CHERNOV, P. N.

"Apparatus for the Analysis of the Spectrum and Frequency Characteristics," by P. N. Chernov, Vestnik Svyazi, No 12, Dec 56, pp 7-9

The article gives the following information on the ASChKh-1 oscillographic spectral analyzer:

The ASChKh-1 is designed for visual and photographic observation of the spectra of periodic oscillations in the audio-frequency range and indicates the amplitude and frequency of any oscillation which is part of an investigated complex signal. The apparatus performs a type of modified sequential analysis, in which the resonators are tuned over the frequency range of the entire spectrum under consideration, i.e., the original spectrum is reorganized when the oscillation under study and a sinusoidal voltage of a variable frequency are fed to a mixer, which is equivalent to the use of a superheterodyne circuit and a heterodyne circuit with frequency modulation.

If proper mechanical-to-electrical transducers are used, the apparatus can also find extensive use in the spectral analysis of mechanical vibrations.

C.HERNOV, P.A.

The basic technical characteristics of the apparatus are as follows:

For spectral analysis -- (1) frequency range for sinusoidal oscillations from 20 to 20,000 cps with frequency scales of 0-2,000, 0-5,000, and 0-20,000 cps; (2) dynamic resolution on the order of 10 cps for a frequency scale of 20-500 cps and on the order of 400 cps for a scale of 20-20,000 cps, at a static resolution of about 4 cps; (3) rate of analysis from 3 to 45 seconds; (4) relative error in the evaluation of the amplitude or higher harmonic components in respect to the fundamental frequency (first harmonic) of the studied signals not over 10 percent; and (5) limit of output voltage of studied signals from one mv to 100 v.

For analyzing frequency characteristics -- (1) range of observation of frequency characteristics of four-terminal networks from 20-20,000 cps in four frequency scales; (2) variation of the natural frequency characteristics of the device within 100-20,000 cps not over 0.5 decibel at a frequency of 500 cps; and (3) voltage fed at the input of the investigated four-terminal network can be varied smoothly from zero to one volt.

A block diagram and five oscillograms are included in the article.

(U)

SUM. 1322

KORZHENEVSKIY, N.L.; DONTSOVA, Z.N.; KHASANOV, Kh.Kh., dots.;
VASIL'KOVSKIY, N.P.; SKVORTSOV, Yu.A.; POSLAVSKAYA, O.Yu.;
KOGAY, N.A., dots.; MAMEDOV, E.D.; AKULOV, V.V.; BABUSHKIN,
L.N., prof.; SHUL'TS, V.L., prof.; GORBUNOV, B.V.; GRANITOV,
I.I.; KOSTIN, V.P.; SMIRNOV, N.V., dots.; TSAPENKO, N.G.,
dots.; DEGTYAR', V.I.; CHERNOV, P.N.; MUKMINOV, F.G.;
SELIYEVSKAYA, A.A.; RYABONIKOV, A.M.; DALIMOV, N.D., dots.;
LOBACH, Kh.S.; TADZHIMOV, T.; ARKAD'YEVA, A.N.; GAL'KOV,
Ch.V.; SHTARKLOVA, S.I.; BESSONOV, M., red.; BAKHTIYAROV, A.,
tekhn. red.

[The Uzbek S.S.R.] Uzbekskaya SSR. Tashkent, Gos.izd-vo
UzSSR, 1963. 483 p. (MIRA 16:8)
(Uzbekistan)

CHERNOV, P.N.

History of the construction of the Tashkent-Orenburg railroad.
Izv. Uzb. fil. Geog. ob-va 2:163-171 '56. (MIRA 11:4)
(Railroads--Construction)

KOZHEVNIKOV, A.N.; LAZEBNIKOV, Yu.S., dots.; MIROSHNIK, B.Ye., dots.; SHADRIN, N.A., prof.; Prinimali uchastiye: SUBBOTIN, B.K., st. prepod.; VOROTNIKOV, V.I., dots.; ANPILOGOV, R.G., retsenzent; ALEKSEYEV, V.B., retsenzent; LYUBOMUDROV, A.P., retsenzent; CHERNOV, P.N., retsenzent; PESKOVA, L.N., red.; BOBROVA, Ye.N., tekhn. red.;

[Economics of railroad engineering] Ekonomika zheleznodorozhnogo stroitel'stva. [By] A.N.Kozhevnikov i dr. Moskva, Transzheldorizdat, 1963. 242 p. (MIRA 17:1)

CHERNOV, P.N., inzh.

Design for the construction of a railroad in Central Asia. Transp.
stroi. 14 no.1:57-58 Ja '64. (MIRA 17:8)

3 (4)

AUTHOR:

Chernov, P. P.

SOV/6-59-8-20/27

TITLE:

Correspondence Courses for Production Workers (Proizvodstvenniki uchatsya zaочно)

PERIODICAL:

Geodeziya i kartografiya, 1959, Nr 8, p 68 (USSR)

ABSTRACT:

The reorganization of the USSR secondary school, college, and university system opened up many opportunities for improving the training of experts in the topographico-geodetic service. Not all members of the local team Nr 66 of the Ukrainskoye AGP (Ukrainian Aerogeodetic Enterprise) have enjoyed a secondary school, college, or university education. Since 1959 the number of members of the team participating in correspondence courses has increased considerably over that of 1958. As of recently, the very best topographers participate in the correspondence courses of the zaachnoye otdeleniye Kiyevskogo topograficheskogo tekhnikuma (Correspondence Course Department of the Kiev Topographical Technicum): N. P. Bublik, V. I. Yemelin, V. N. Zasteba, N. A. Andreychenko, P. D. Andreychenko, A. K. Peretyatko, and others.

Card 1/1

CHERNOV, P.P., uchitel' khimii

Demonstration of the operation of well drilling in the extraction
of brine. Khim.v shkole 15 no.1:88-89 Ja-F '60.
(MIRA 13:5)

1. Srednyaya shkola No.5 goroda Fergany.
(Salt mines and mining) (Chemistry--Experiments)

CHERNOV, P.P., uchitel'

Demonstrating the operation of industrial mixers and churns.
Khim. v shkole 16 no.2:85-86 Mr-Apr '61. (MIRA 14:6)

1. Srednyaya shkola No.5, g. Fergana.
(Mixing machinery)

BARIM, B.A.; CHERNOV, P.S.

Fast coincidence circuits. Nauch.-tekhn.sbor.Gos.izd-va lit. v obl.
atom. nauki i tekhn. no.4:99-108 '62. (MIRA 16:10)

KUZ'NIN, A.A.; KUROCHKIN, S.S.; KISELEV, Yu.S.; MAMAYEV, V.A.;
PLIGIN, Yu.S.; CHERNOV, P.S.

System for determining the position of a proton beam. Prib. i
tekh. eksp. 7 no.4:126-131 J1-Ag '62. (MIRA 16:4)

1. Institut teoreticheskoy i eksperimental'noy fiziki Gosu-
darstvennogo komiteta po ispol'zovaniyu atomnoy energii SSSR.
(Particle accelerators) (Protons)

1. The first part of the document is a summary of the main points of the report.

2. The second part of the document is a detailed description of the methods used in the study.

3. The third part of the document is a discussion of the results of the study.

4. The fourth part of the document is a conclusion of the study.

5. The fifth part of the document is a list of references.

ABSTRACT: This report describes the results of a study of the effects of a new drug on the behavior of rats. The study was conducted in a laboratory setting and involved a group of rats that were exposed to the drug and a control group that was not. The results of the study showed that the drug had a significant effect on the behavior of the rats, and this effect was observed in all of the subjects that were exposed to the drug.

8 formulas, and 1 table.

SUBMITTED: 100

NI

L 32061-66 EWT(1)
ACC NR: AR6016156

SOURCE CODE: UR/0058/65/000/011/A030/A030

AUTHOR: Chernov, P. S. 2/

TITLE: Electron-physics apparatus for the nonasecond band

SOURCE: Ref. zh. Fizika, Abs. 11A294

REF SOURCE: Tr. Soyuzn. n.-i. in-ta priborostr., vyp. 1, 1964, 160-166

TOPIC TAGS: cybernetics, plasma research, electronic equipment, nonasecond pulse, weak nuclear interaction, shf amplifier, computer circuit

ABSTRACT: The main requirements imposed on electron-physics apparatus intended for cybernetic applications, for plasma fusion work, for investigations of weak interactions of elementary particles, and other branches of modern physics are formulated. The simplest functional blocks of modern electron-physics apparatus are considered: amplifiers, discriminators, scaler circuits, and coincidence and anticoincidence circuits. The main characteristics of the described blocks are presented in the form of a table. The most interesting projects of measuring apparatus for the nanosecond band, worked on at SNIIP during the last decade, are considered. The prospects of further development of electron-physics apparatus are considered. L. S. [Translation of abstract]

SUB CODE: 20, 109

CHERNOV, R.I.

Catching torn rubberized cable belts on KRU-350 conveyers.
Ugol' 39 no.3:48-50 My'64. (MIRA 17:5)

CHERNOV, R.I.; MAKOVEYEV, N.I.

Comparative analysis of various rubber and wire rope belt designs.
Vop.bezop.v ugol'.shakn. 4:283-289 '64.

(MIRA 18:1)

Chernov, R. V.

USSR/ Chemistry - Analytical chemistry

Card 1/1 Pub. 116 - 15/29

Authors : Zharovskiy, F. G., and Chernov, R. V.

Title : Distribution of o-hydroxyquinoline and its combination with iron in a water - organic solvent system

Periodical : Ukr. khim. zhur. 21/6, 757-760, Dec 1955

Abstract : Analytical data are presented on the solubility of o-hydroxyquinoline in carbon tetrachloride, chloroform, dichloroethane, benzene and the distribution coefficient of this reagent between these organic solvents and water as well as aqueous acetic acid solution. The orientation of these solvents in the series corresponds to the surface tension series of these solvents. The law governing the orientation of indifferent solvents in a series in accordance with their extractability, is explained. Four USSR references (1929-1951). Table.

Institution : Kiev State University im. T. G. Shevchenko

Submitted : June 4, 1955

MARKOV, B.F.; CHERNOV, R.V.

Phase diagrams of binary salt systems. Part 3: RbCl-MnCl_2 and CsCl-MnCl_2 . Ukr. khim. zhur. 24 no. 2:139-142 '58. (MIRA 11:6)

1. Institut obshchey i neorganicheskoy khimii AN USSR.
(Rubidium chloride)
(Cesium chloride)
(Manganese chlorides)

MARKOV, B.P.; CHERNOV, R.V.

Phase diagrams of binary salt systems. Part 4: RbCl-SnCl_2 and CsCl-SnCl_2 . Ukr. khim. zhur. 24 no. 2:143-145 '58. (MIRA 11:6)

1. Institut obshchey i neorganicheskoy khimii AN USSR.
(Rubidium chloride)
(Cesium chloride)
(Tin chlorides)

84841

S/021/60/000/006/013/019
A153/A029

26.1610
AUTHORS: Delimars'kyy, Yu.K., Corresponding Member AS UkrSSR; Chernov, R.V.
TITLE: Specific Conductivity of Molten Titanium Trichloride - Alkali Chlo-
ride Metals
PERIODICAL: Dopovidi Akademiya nauk Ukrayins'koyi RSR, 1960, Nr. 6, pp. 795 - 797

TEXT: The authors report the results of the study specified in the title, conducted on molten systems containing three-valent compounds of titanium, viz., NaCl-TiCl_3 and KCl-TiCl_3 . Titanium trichloride was of 98% purity. The method of the preparation of the alloys is described by B.F. Markov and R.V. Chernov (Ref. 2). The specific conductivity of the above systems was measured by the polythermal method within the range of temperatures from 770 - 820°C. The electric conductivity was measured in an atmosphere of dry argon with the help of an ordinary bridge circuit [frequency 1,400 c/s, clear minimum, 6E5 (6Ye5) tube used for zero]. Figure 1 shows the isotherms obtained at 800°C by the authors compared with those obtained by Bil'ts and Klemm. The NaCl-TiCl_3 system was studied up to 45.4% molar, the KCl-TiCl_3 system to 57.4% molar. The specified electric

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84841

S/021/60/000/006/013/019

A153/A029

Specific Conductivity of Molten Titanium Trichloride - Alkali Chloride Metals

conductivity of molten samples consisting of the above-specified components in the ratio of 3 : 1 and 1 : 1 (at 800°C) equaled $1.39 \text{ ohm}^{-1} \cdot \text{cm}^{-1}$; and $0.97 \text{ ohm}^{-1} \cdot \text{cm}^{-1}$, respectively. An analysis of the results confirms those given by M.A. Klochko (Ref. 4), showing in the melt the formation of the complex TiCl_6^{3-} ions, which confirms that the presence of a break or a horizontal section on the isotherms of the specific electric conductivity indicates a chemical interaction between the melt's components. No Na_3TiCl_6 compound was found in the NaCl-TiCl_3 system in a solid state, yet a calculation performed with the aid of Schroeder's equation showed that it may be present in a molten state. There are 1 graph, 1 table and 4 references: 3 Soviet, 1 English.

ASSOCIATION: Instytut zagal'noyi ta neorhanichnoyi khimiyi AN UkrSSR (Institute of General and Inorganic Chemistry of the AS UkrSSR)

SUBMITTED: March 1, 1960

Card 2/2

30180

S/078/61/006/012/006/011
B145/B147

54700

AUTHORS: Chernov, R. V., and DelimarSKIY, Yu. K.

TITLE: Some rules governing the specific conductivity of melts of the systems alkali metal chloride - titanium trichloride

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 6, no. 12, 1961, 2749-2752

TEXT: The authors had shown in a previous paper (Ref. 1: Yu. K. DelimarSKIY, R. V. Chernov. Dokl. AN USSR, 6, 795, 1960) that the isotherms of the specific conductivities of the $\text{NaCl} - \text{TiCl}_3$ and $\text{KCl} - \text{TiCl}_3$ systems confirm the existence of chemical interactions in these mixtures, and that characteristic sections of the isotherms are indicative of combinations of the type M_3TiCl_6 and MTiCl_4 existing in the melts. In the present paper, these rules are investigated for the $\text{RbCl} - \text{TiCl}_3$ and $\text{CsCl} - \text{TiCl}_3$ systems that had been studied before by the thermal analysis method (Ref. 2: B. F. Markov, R. V. Chernov. Ukr. khim. zhurn., 25, 279, 1959). Methods of determination, preparation of reagents, and construction of cells were adopted from the previous paper (Ref. 1). The specific conductivities

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S/078/61/006/012/006/011
B145/B147

Some rules governing the specific ...

of the $\text{RbCl} - \text{TiCl}_3$ and $\text{CsCl} - \text{TiCl}_3$ systems were measured in the range of 0 - 51.8 mole% of TiCl_3 , and 0 - 52.9% of TiCl_3 , respectively. In conformity with the results obtained by thermal analysis, the isotherms exhibit characteristic salient points at 25 and 50 mole% of TiCl_3 . In the case of a melt with RbCl , the specific conductivity at 800°C at these points is $1.08 \text{ ohm}^{-1} \text{ cm}^{-1}$ and $0.93 \text{ ohm}^{-1} \text{ cm}^{-1}$, respectively, and in the case of a melt with CsCl , it is $0.86 \text{ ohm}^{-1} \text{ cm}^{-1}$ and $0.69 \text{ ohm}^{-1} \text{ cm}^{-1}$, respectively. In the melts of the $\text{MCl} - \text{TiCl}_3$ systems ($\text{M} = \text{alkali metal}$), the salient point in the conductivity isotherms for $\text{M} = \text{Rb, Cs}$ is less distinct than it is for $\text{M} = \text{Na, K}$, since the stability of the compounds MTiCl_4 and M_3TiCl_6 ($\text{M} = \text{Rb, Cs}$) in the melt is approximately equal, and the two types of ions TiCl_4^- and TiCl_6^{3-} may in this case simultaneously be present in the melt. According to Semenchenko, the compounds MTiCl_4 and M_3TiCl_6 ($\text{M} = \text{Na, K, Rb, Cs}$) obey a linear dependence of μ , the reduced

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B145/B147

Some rules governing the specific ...

moment of the cation, in the same way as do the values of the specific conductivity of pure alkali metal chlorides. The values of specific conductivity at 800°C of the compound M_3TiCl_6 satisfy the equation $\chi_{800} = 3.22 (\mu - 0.34)$. Owing to lower electrolytic dissociation of $MTiCl_4$ and M_3TiCl_6 as compared with that of pure chlorides, for which complete dissociation is assumed, the diagram χ, μ shows that the angle of inclination of the straight lines for these compounds is smaller than the corresponding angle of the straight lines for pure chlorides. The electrolytic dissociation of M_3TiCl_6 depends on the following reaction: $M_3TiCl_6 \rightleftharpoons M^+ + M_2TiCl_6^-$. Thermal dissociation is decisive for the total equilibrium. The relative degree of dissociation of the compound M_3TiCl_6 ($M = Na, K, Rb$) is calculated from the difference of the angles of inclination of the straight lines in the χ, μ diagram with respect to the degree of dissociation of Cs_3TiCl_6 . It is 73.6, 84.6, and 91.4% for $M = Na, K, Rb$ and, analogously, 63.7, 75.7, and 86.0% of the dissociation of $CsTiCl_4$.

Card 3/4

30180

S/078/61/006/012/006/011
B145/B147

Some rules governing the specific ...
for the compound MTiCl_4 . Comparing the values of the specific
conductivity for melts of the composition 25 mole% of TiCl_3 at different
temperatures shows that the increase in conductivity as a result of a
change in temperature is about equal for NaCl and KCl , and then steadily
decreases for RbCl and CsCl . There are 2 figures and 5 references: 4
Soviet and 1 non-Soviet. The reference to the English-language publica-
tion reads as follows: M. Mulcahy, E. Heymann, J. Phys. Chem. 47, 485
(1943).

SUBMITTED: November 29, 1960

Card 4/4

DELIMARSKIY, Yu.K. [Delimars'kiy, IU.K.], akademik; CHERNOV, R.V.

Transference numbers in binary salt systems $TiCl_3$ - $MeCl$. Dop.
AN URSR no.11:1508-1509 '61. (MIRA 16:7)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.
2. AN UkrSSR (for Delimarskiy).
(Systems (Chemistry)) (Ions--Migration and velocity)

MARKOV, B.F.; CHERNOV, R.V.

Phase diagrams of binary salt systems. Part 6: Applications of
the Schröder equation. Ukr. khim. zhur. 27 no.1:34-39 '61.
(MIRA 14:2)

1. Institut obshchey i neorganicheskoy khimii AN USSR.
(Systems (Chemistry)) (Chlorides)

52200

²⁶²⁷⁹
S/073/61/027/004/003/004
B127/B203

AUTHORS: Sheyko, I. N., Chernov, R. V., and Kikhno, V. S.

TITLE: Melting diagrams of some salt systems containing potassium fluozirconate. Communication I

PERIODICAL: Ukrainskiy khimicheskiy zhurnal, v. 27, no. 4, 1961, 469-473

TEXT: For obtaining metallic zirconium, the electrolysis of salt melts is used; the melting diagrams of these salts were studied by the authors. Primarily, $\text{KF-K}_2\text{ZrF}_6$; $\text{KCl-K}_2\text{ZrF}_6$; $\text{KCl-K}_3\text{ZrF}_7$; $\text{NaCl-K}_2\text{ZrF}_6$; $\text{KCl-NaCl-K}_3\text{ZrF}_7$. The studies were conducted by the visual-polythermic method. Arrangement: A platinum pot placed in quartz was arranged in an electric furnace with a Pt-Pt-Rh thermocouple in argon atmosphere; results are given in Figs. 1 - 5. All systems melt congruently; the systems $\text{KCl-K}_3\text{ZrF}_7$ and $\text{KCl-NaCl-K}_3\text{ZrF}_7$ show a simple eutectic; K_2ZrF_6 , however, melts incongruently, and the salt K_3ZrF_7 first crystallizes out of its melt. There are 5 figures and 6 references: 4 Soviet and 2 non-Soviet.

Card 1/7

Melting diagrams of some salt systems ...

26279

S/073/61/027/004/003/004
B127/B203

The two references to English-language publications read as follows:
Ref. 3: M. Steinberg, M. Sibert, E. Wainer, J. Electrochem. Soc., 101,
63 (1954); 103, 137 (1955); Ref. 5: C. I. Barton, W. R. Crimes,
H. Insley, R. E. Moore, R. E. Thoma, J. physic. chem., 62, 665 (1958).

ASSOCIATION: Institut obshchey i neorganicheskoy khimii AN USSR
(Institute of General and Inorganic Chemistry AS UkrSSR)

SUBMITTED: April 29, 1960

- Fig. 1. System $\text{KF-K}_2\text{ZrF}_6$
- Fig. 2. System $\text{KCl-K}_2\text{ZrF}_6$
- Fig. 3. System $\text{KCl-K}_3\text{ZrF}_7$
- Fig. 4. System $\text{NaCl-K}_2\text{ZrF}_6$
- Fig. 5. System $\text{KCl-NaCl-K}_3\text{ZrF}_7$

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43054

S/826/62/000/000/004/007
D408/0307

5.4700

AUTHORS: Sheyko, I.N., Chernov, R.V. and Kikhno, V.S.

TITLE: Phase diagram of the chloride-fluoride system
of sodium, potassium, and zirconium

SOURCE: Fizicheskaya khimiya rasplavlennykh soley i
shlakov; trudy Vses. soveshch. po fiz. khimii
raspl. soley i shlakov; 22 - 25 noyabrya 1960
g. Moscow, Metallurgizdat, 1962, 72 - 76

TEXT: The authors investigated the behavior of molten
 K_2ZrF_6 on cooling and the phase diagrams of the systems K_2ZrF_6 --
KCl, K_2ZrF_6 --NaCl, K_2ZrF_6 --KF, K_3ZrF_7 --KCl, K_3ZrF_7 --NaCl, and
 K_3ZrF_7 --KCl--NaCl by the cooling curve method, in order to make
good deficiencies in the literature concerning potential electro-
lytic production of Zr. K_3ZrF_7 was prepared by fusing together
the appropriate amounts of KF and K_2ZrF_6 melted incongruently and,
when the melt was cooled, K_3ZrF_7 was the first compound to crystal-
Card 1/3

Phase diagram ...

S/826/62/000/000/004/007
D408/D307

lize out, at 757°C. A thermal effect observed at 591°C probably corresponded to the formation of the compound $ZrF_4 \cdot mKF$, where $m < 3$. The phase diagram of the K_2ZrF_6 --KF system showed the formation of K_3ZrF_7 , melting at 921°C, and a eutectic containing 17 mol.% K_2ZrF_6 , which melted at 766°C. The systems K_3ZrF_7 --KCl, equimolar KCl - NaCl mixture-- K_3ZrF_7 , and K_3ZrF_7 --NaCl were also found to be relatively simple, having single eutectics containing 23, 21 and 20 mol.% K_3ZrF_7 and melting at 660, 630 and 555°C respectively; a solid solution of NaCl in K_3ZrF_7 was also observed in the K_3ZrF_7 --NaCl system. The K_2ZrF_6 --KCl system was characterized by the presence of the compound K_3ZrF_6Cl , congruently melting at 730°C, and two eutectics containing 23 and 95 mol.% K_2ZrF_6 melting at 678 and 562°C respectively. The K_2ZrF_6 --NaCl system was the most complex of systems investigated, and interpretation of the obtained results is difficult; The liquids curve consists of three branches, the NaCl and K_3ZrF_6Cl branches intersecting at 550°C and 28 mol.% K_2ZrF_6 , and K_3ZrF_6Cl and K_3ZrF_7 branches intersecting at 630°C and 79 mol.% K_2ZrF_6 . The existence of the K_3ZrF_6Cl was deduced from experiments

Card 2/3

Phase diagram ...

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carried out by the method of temperature depression, whereby the addition of KCl to the melt containing 60 - 65 mol.% K_2ZrF_6 increased the temperature of initial crystallization, and with further addition of KCl the rate of temperature rise slowed down, or the temperature even partially decreased; addition of Na_2ZrF_6 decreased the temperature of initial crystallization. There are 6 figures.

ASSOCIATION:

Institut obshchey i neorganicheskoy khimii AN USSR
(Institute of General and Inorganic Chemistry AS
UKRSSR)

Card 3/3

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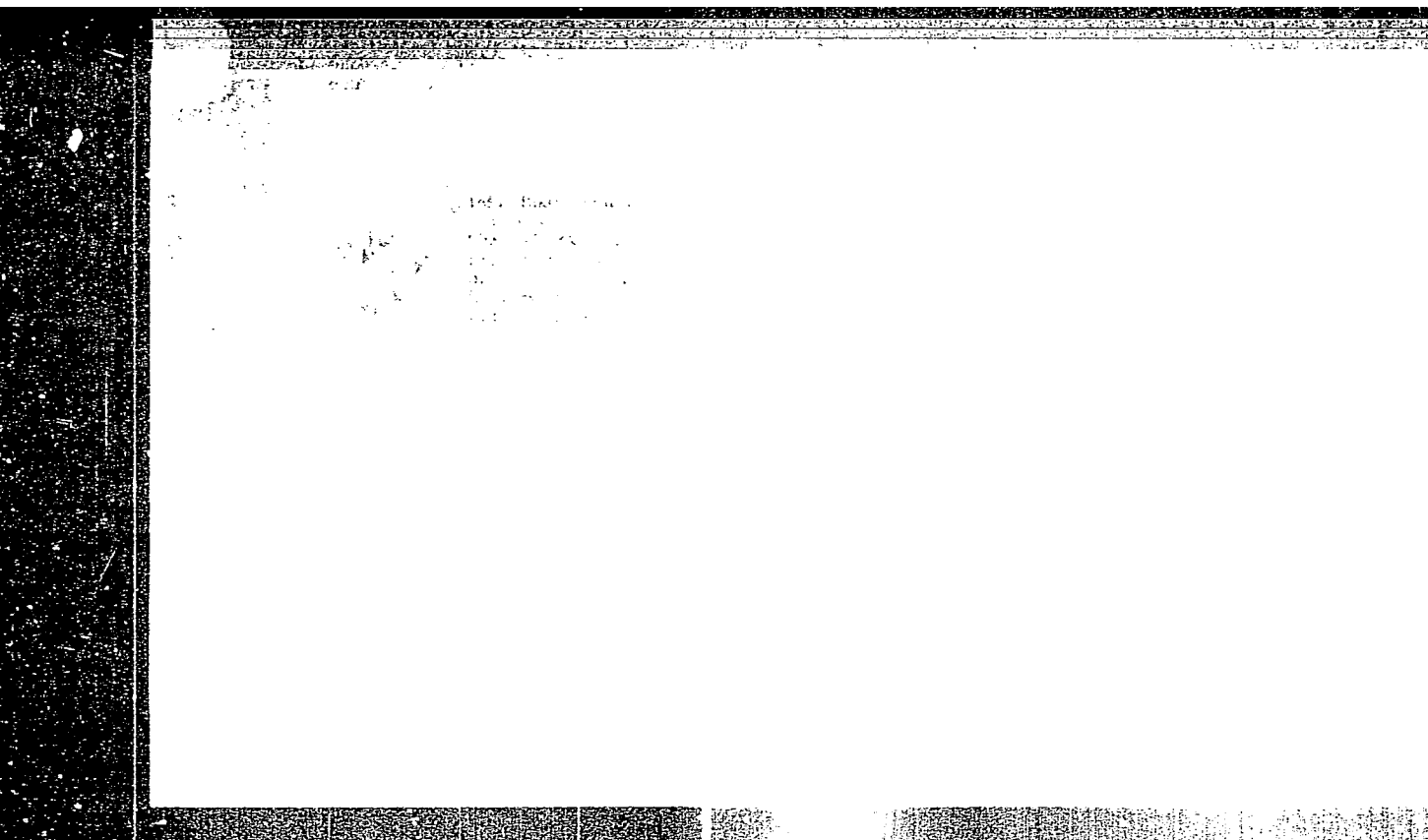
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ACC NR: AM6029190

(N)

Monograph

UR/

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Vibration of marine turbo-unit components (Vibratsiya detaley sudovykh turboagregatov) vol. 2. Leningrad, Izd-vo "Sudostroyeniye," 1966. 291 p. illus., biblio., tables. 1,400 copies printed.

TOPIC TAGS: vibration, machine vibration, shaft vibration, torsional vibration, vibration analysis

PURPOSE AND COVERAGE: Modern methods are presented for calculating and experimentally investigating the vibrations of marine turbounit components. The vibration of disks, rotors, condenser tubing, piping systems, and propeller shafts is also considered. The book is intended for engineering and technical personnel in factories, design departments, and scientific-research institutions. It may also be used as a textbook for aspirants and students in shipbuilding schools of higher education.

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SUB CODE: 13,20/SUBM DATE: 10Mar66/ ORIG REF: 045/ OTH REF: 004/

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May 49

Construction Industry
Construction Equipment

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"Strol Prom" No 3

discusses second part of "Fixed States," "Its
and Mechanizing Construction."

*Organizing and mechanizing construction sections for four sections are (1) basic positions for construction organization, (2) instructions and organizing and mechanizing industrial and civic constructions, (3) instructions for organizing constructions, (39/49746

39/49746

USSR/Engineering (Contd)

May 49

and mechanizing special construction projects, and (4) construction machines. Use of these instructions should make it possible to increase labor productivity, and to speed up construction while decreasing cost of labor. Gives table of norms of various machines.

39/49T46

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 prof., doktor tekhn. nauk, retsenzent; RUFFEL', N.A., dots.,
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(MIRA 18:12)

CHERNOV, V.; LEBEDEV

Greater attention should be given to vocational and technical schools. Shvein.prom. no.1:35 Ja-F '60.

(MIRA 13:6)

1. Direktor shkoly fabrichno-zavodskogo uchilishcha Beloomutskoy shveyroy fabriki (for Chernov). 2. Zaveduyu-shchiy uchebno-proizvodstvennoy chast'yu fabrichnozavodskogo uchilishcha Beloomutskoy shveyroy fabriki (for Lebedev).
(Clothing industry--Study and teaching)

CHERNOV, V.; VAL'TER, M. [Valters, M.], red.; INKIS, R., tekhn. red.

[New method for welding aluminum strands of electric cables]

Novyi sposob paiki aluminievyykh zhil kabelia; opyt Rzh-skikh gorodskikh elektrosetei "Latvenergo" (energetika).

Riga, TSentr. biuro tekhn. informatsii, 1962. 5 p.

(MIRA 16:4)

(Electric lines--Welding)

(Electric cables--Welding)

CHERNOV, V.

Modernisation of the transverse carriage of a semi-automatic lathe model
MT-30. Podshipnik no.4:28-29 My '53. (MIRA 6:5)
(Lathes)

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"Artillery piece" Artilleriskoe orudie (Moscow: Voennoe izd.) 1953, 119 pp.

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Multi-chamber core-type vibration mill for crushing local binding
materials. Stroil. mat. 4 no. 6:19-21 Je '58. (NIRA 11:7)

(Binding materials)

(Vibrators)

14(2)

SOV/100-59-5-10/14

AUTHOR: Chernov, V.A., Engineer

TITLE: Mechanization of Small Material-Handling Operations

PERIODICAL: Mekhanizatsiya stroitel'stva, 1959, Nr 5, pp 27-28 (USSR)

ABSTRACT: The article describes a hoisting equipment type KP-0.6 for lifting material weighing up to 600 kg to a maximum height of 20 m and passing same through a window or similar openings into the interior of buildings under construction. The equipment consists of a mast mounted on a movable frame and a carriage with monorail and trolley. The carriage is lifted up by the electric hoist, type T-224; electric motor MTK-11-6 and reducer RM-250-IV-6 are moving the hoisting equipment mounted on rails; telfer line TE-0.5-220 mounted on the carriage takes care of the movement of the trolley and the monorail. The installation can be operated by remote control. There are: 2 photos and 1 table.

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